STARTEK
ARCHITECTURAL LIGHTING

Rep/Agent		Type	
Project			
Order No.		Date	

Micro Round Suspended

Direct



Key Features

- Extruded aluminum single piece housing
- Soft diffuse direct lighting
- Toolless height adjustment at the ceiling
- 0-10V dimming to 1% is standard
- 120-277V for power enclosure
- Standard plenum-rated cable; plenum-rated enclosures available.
- Three power choices of Hyper Drive remote power system

5 Year Warranty | BABA Compliant | BAA Compliant | Chicago Plenum | Intertek | RoHS Compliant

Specifications

Construction

- Continuous extruded 6063 T5 aluminum
- Mechanically attached end caps with no exposed fasteners enhance architectural aesthetic and prevent light leak.

Dimensions

- Nominal dimensions: 1.62" x 0.89"

Finish

- Powder coated
- Colors: White or Black
- End Caps: Color-matched to housing

Luminaire Length

- Standard individual lengths: 2', 4', 6' or 8'

Source

- CCT options: 2700K, 3000K, 3500K, 4000K, or 5000K
- All within 3 MacAdam ellipses
- 90 CRI (R9 50 min) available

Lensing

- 0.060" thick impact resistant acrylic lens
- Soft diffuse direct lighting

Operating Temperature

- -40°C to 50°C (-40°F to 122°F)

Lithium Ion Battery

- Provides up to 780 lm (6W) or up to 1300 lm (10W) for 90 minutes.
- Certifications: UL924 listed, Class 2 compliant, and Title 20 CEC (California Energy Commission) compliant

Dimming (Integral) Driver

- (0-10V) dimming driver with programmable current for configurable fixture lumen outputs (UL listed, Class P)
- Overcurrent protection: 2.5KV
- Power factor: >0.90

Certifications

- Build America Buy America compliant
- Buy American Act compliant
- Intertek cETLus Listed
- RoHS (Restriction of Hazardous Substances)
- Suitable for dry and damp locations

Packaging

- Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

Warranty

- 5-year limited warranty.

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Ordering Logic

MRND-4-750-SD-35K-80-PW-CSW-1C-HD01

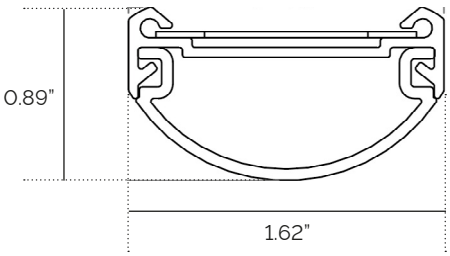
Series	Length	Direct Output[1]	Direct Distribution	CCT	CRI
MRND			SD		
	XX - Run Length	**250 -** 250 LPF	**SD -** SatinIce Diffuse	**27K -** 2700K	**80 -** 80 CRI
		500 - 500 LPF		**30K -** 3000K	**90 -** 90 CRI (R9 50 min)
		750 - 750 LPF		**35K -** 3500K	
		1000 - 1000 LPF		**40K -** 4000K	
		XXX - Custom LPF		**50K -** 5000K	

Finish[2]	Mounting		Circuiting	Remote Option[5]	Hyper Drive Circuit[6, 7]
			1C		
Standard Powder Coat	**Powered Canopy[3]**	**Canopy Surface[4]**	**1C -** Single Circuit	**EX -** EM Battery Designated Fixture	**HDXX -** Hyper Drive Circuit
PW - White	**PCW -** Powered Canopy White	**CSW -** Canopy Surface White			
PB - Black	**PCB -** Powered Canopy Black	**CSB -** Canopy Surface Black			
Premium	**Canopy Recessed[4]**	**T-Grid[4]**			
RALXXXX - Powder Coat Gloss Finish	**CRW -** Canopy Recessed White	**TB1 -** 9/16" Grid			
	CRB - Canopy Recessed Black	**TB2 -** 15/16" Grid			
	Canopy T-Grid[4]	**TB3 -** 9/16" Tegular			
	CTW - Canopy T-Grid White	**TB4 -** 15/16" Tegular			
	CTB - Canopy T-Grid Black				

Ordering Notes

1. 200 LPF min. output / 1000 LPF max. output.
2. See page 5 for standard options.
3. 120-277V driver included. 50W max. dual driver required.
4. Must be ordered with Hyper Drive Remote Driver.
5. Specify quantity in 'X'. (ex: 3 batteries = 'E3')
6. Not required with the Powered Canopy mounting.
7. See pages 3-4 for more information.

Dimensions



Lumen Packages

Length	Lumens	Input Wattage	LPW
4'	4000	34	118
8'	8000	65	123

NOTE: Based on 3500K CCT. Other CCT available.

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Contact STARTEK for most up to date product details.

Hyper Drive Remote Power System

Ordering Logic

HYPD-L8-NB-PW-U-DTZ-HD01

Series	Size & Quantity[1, 2, 3]	Optional Emergency Battery[4, 5]	Finish	Voltage
HYPD				U
	SX - 190W CSWall (2 max.)	**NB -** No EM Battery	**Standard Powder Coat**	**U -** 120-277V
	MX - 300W Medium (4 max.)	**#EMB6 -** 6W EM Battery (Provided by IOTA/Bodine)	**PW -** White	
	LX - 600W Large (8 max.)	**#EMB10 -** 10W EM Battery (Provided by IOTA/Bodine)	**PB -** Black	
		#FCEMB10 - 10W EM Battery (Factory Choice)	**Premium**	
			RALXXXX - Powder Coat Gloss Finish	

Options		Hyper Drive Circuit
Specialty Drivers[6, 7]	**Sensors**	**HDXX -** Hyper Drive Circuit
DT1 - eldoLED EcoDrive Dim to 1% (0-10V)	Consult factory	
DTZ - eldoLED SoloDrive Dim to 0.1% (0-10V)	**Others**	
PSRD - Philips Sensor Ready (DALI) Driver	**CP -** Chicago Plenum (CCEA)	
LDE1 - Lutron Hi-Lume EcoSystem LED Driver w/ Soft-on, Fade-to-Black	**RTS -** Remote Test Switch for Battery	
TW-A - Tunable White, 0-10V		
TW-EL - eldoLED DUALdrive Tunable White (DALI)		

Ordering Notes

1. Replace 'X' with driver quantity.
2. One driver is required per direct only fixture (8' maximum length).
3. Consult factory for custom configurations and drivers not listed.
4. Replace '#' with battery quantity.
5. Each emergency battery reduces the driver quantity of the Hyper Drive.
6. Standard driver is 0-10V, dim to 1% output current.
7. Consult factory for additional driver options.

Limitations

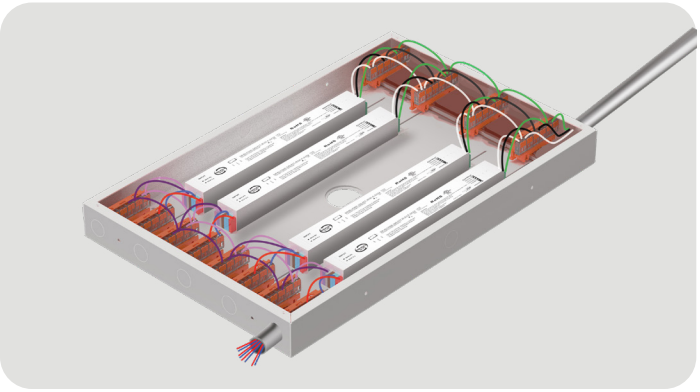
Reference chart for recommended maximum lengths of low voltage cable ran from Hyper Drive to fixture.

Wire Gauge (AWG)	18G	35'
	16G	60'
	14G	100'
	12G	150'

Configurations

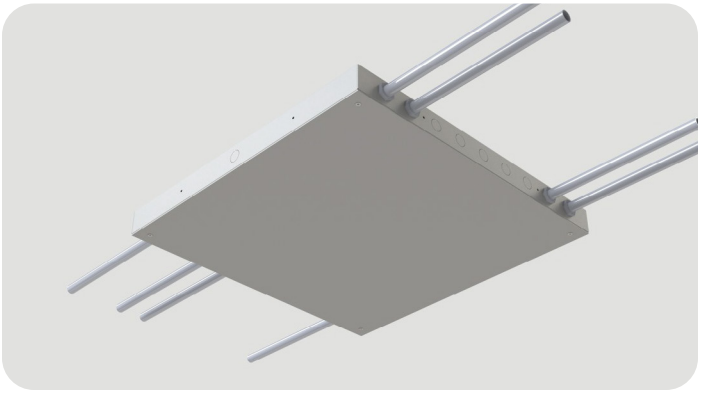
M4 Configuration *(Shown without front cover)*

Each driver is provided with a terminal block on both input and output side for ease of wiring and installation.



L8 Configuration *(Shown with front cover)*

Each driver is provided with a terminal block on both input and output side for ease of wiring and installation.



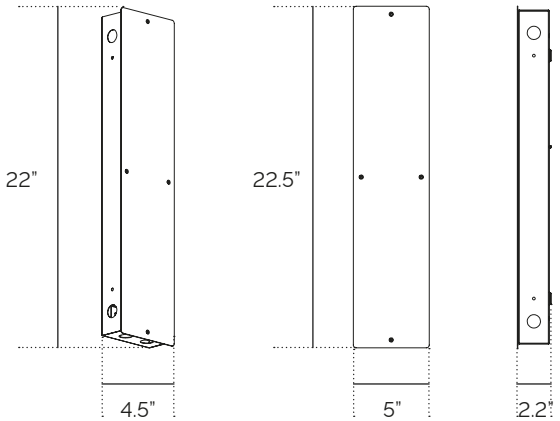
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Hyper Drive Remote Power System

SX (CSWall Hyper Drive Remote Canopy)

190W / 2 Drivers Max.

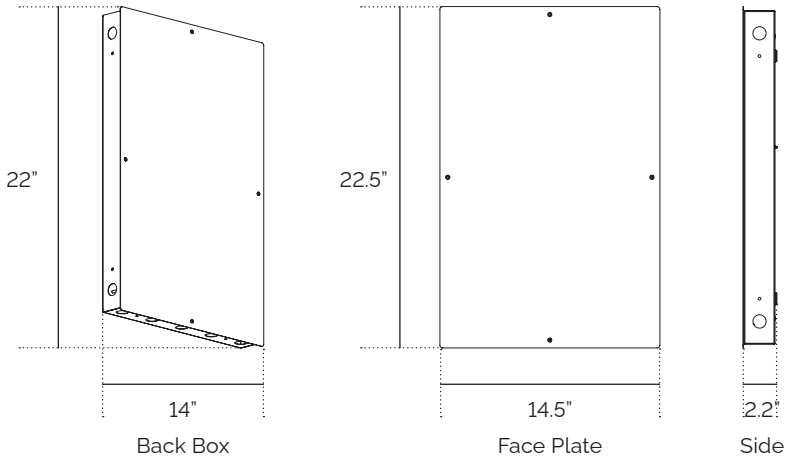
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 2 (190W max)
Max. Remote Distance	Up to 150' (45m)
Knockouts	0.5" (x6)
Battery	Available



MX (Medium Hyper Drive Remote Canopy)

300W / 4 Drivers Max.

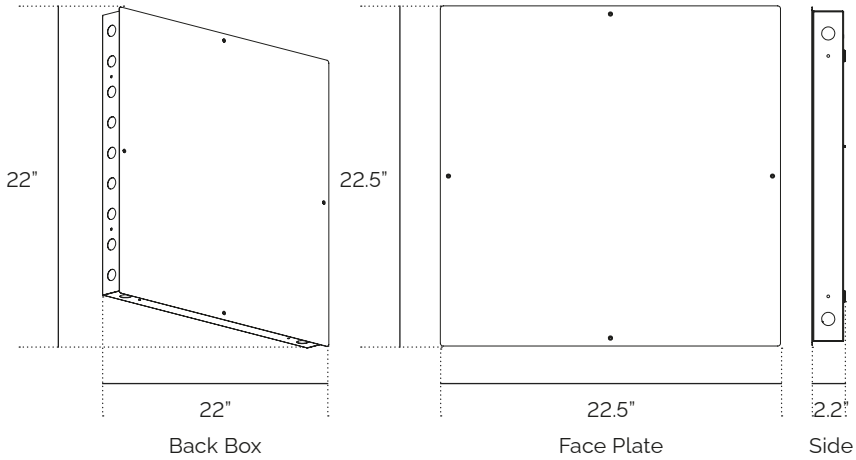
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 4 (300W max)
Max. Remote Distance	Up to 150' (45m)
Knockouts	0.5" (x12)
Battery	Available



LX (Large Hyper Drive Remote Canopy)

600W / 8 Drivers Max.

Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 8 (600W max)
Max. Remote Distance	Up to 150' (45m)
Knockouts	0.5" (x20)
Battery	Available



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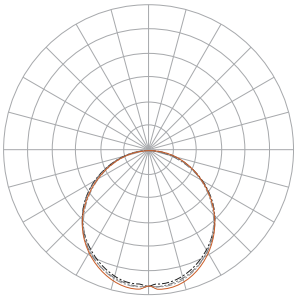
Finishes

Standard

PW: White

PB: Black

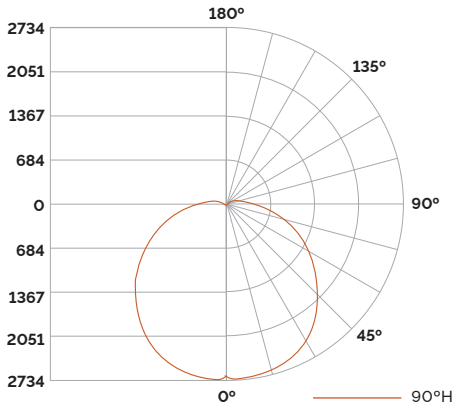
Distribution



Direct: SatinIce Diffuse (SD)

Performance

MRND-8-1000-SD-35K-80



Luminance Data (cd/sq.m)

Angles	Avg. 0°	Avg. 45°	Avg. 90°
45°	23679	21045	21399
55°	22146	19201	19602
65°	20024	17180	17833
75°	16745	15477	16254
85°	11913	14905	15730

Candela Table

Vertical Angle	Horizontal Angle 0	22.5	45	67.5	90
0°	2666	2666	2666	2666	2666
5°	2645	2627	2644	2674	2726
10°	2609	2589	2610	2642	2695
15°	2545	2524	2552	2589	2641
20°	2452	2432	2472	2514	2566
25°	2326	2311	2368	2418	2471
30°	2178	2168	2240	2302	2359
35°	2010	2007	2093	2165	2225
40°	1824	1831	1931	2012	2075
45°	1627	1646	1757	1853	1914
50°	1443	1464	1577	1683	1742
55°	1237	1266	1401	1513	1565
60°	1030	1065	1216	1341	1389
65°	827	869	1035	1161	1210
70°	619	683	862	991	1035
75°	427	516	707	834	874
80°	252	368	566	688	729
85°	106	245	443	562	599
90°	13	155	342	455	487

Power

Direct LPF	Total Lumens	Satin Diffuse (SD) LPW	W/ft.
300	2800	156	2
500	4259	156	3
750	6388	156	5
1000	8518	156	7

NOTE: Based on 8' lengths at 35K CCT and 80 CRI modules. All wattage values are rounded up. Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%.

Wattage Multiplier

CRI	CCT	4' Length	8' Length
80 CRI	3000K	1.11	1.05
	3500K	1.05	1.00
	4000K	1.03	0.98
	5000K	1.02	0.97
90 CRI	3000K	1.17	1.11
	3500K	1.11	1.05
	4000K	1.08	1.03
	5000K	1.07	1.02

Multiplier How-To

To determine CRI/CCT configuration wattage:

Choose wattage from Power matrix for desired optic and lumen output for 8' fixture length.

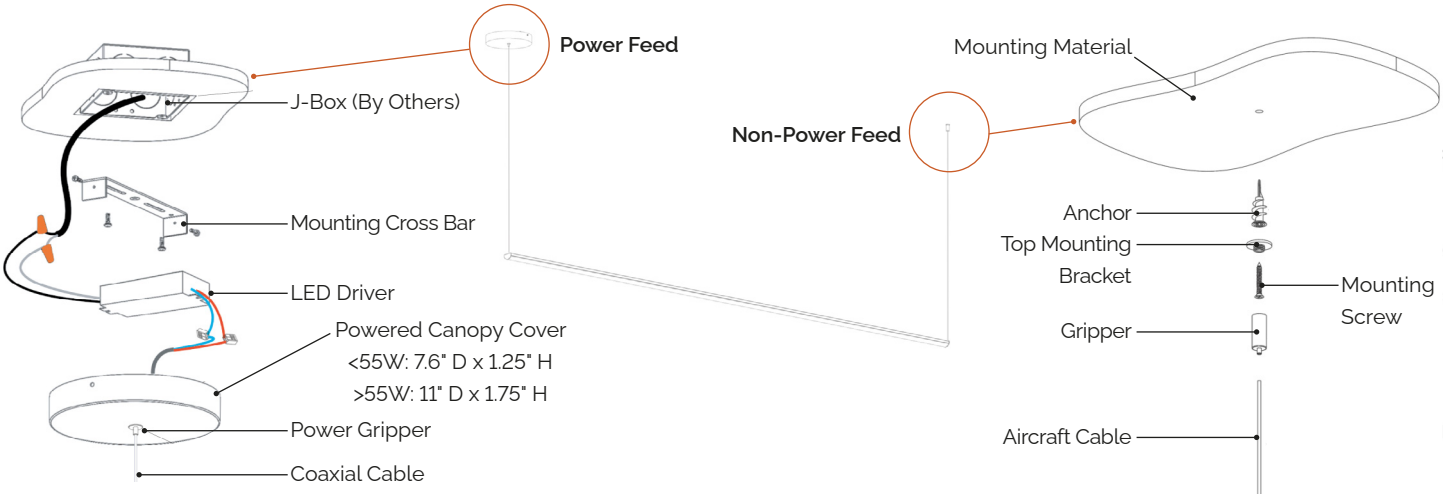
Wattage x Multiplier = New Configuration Wattage

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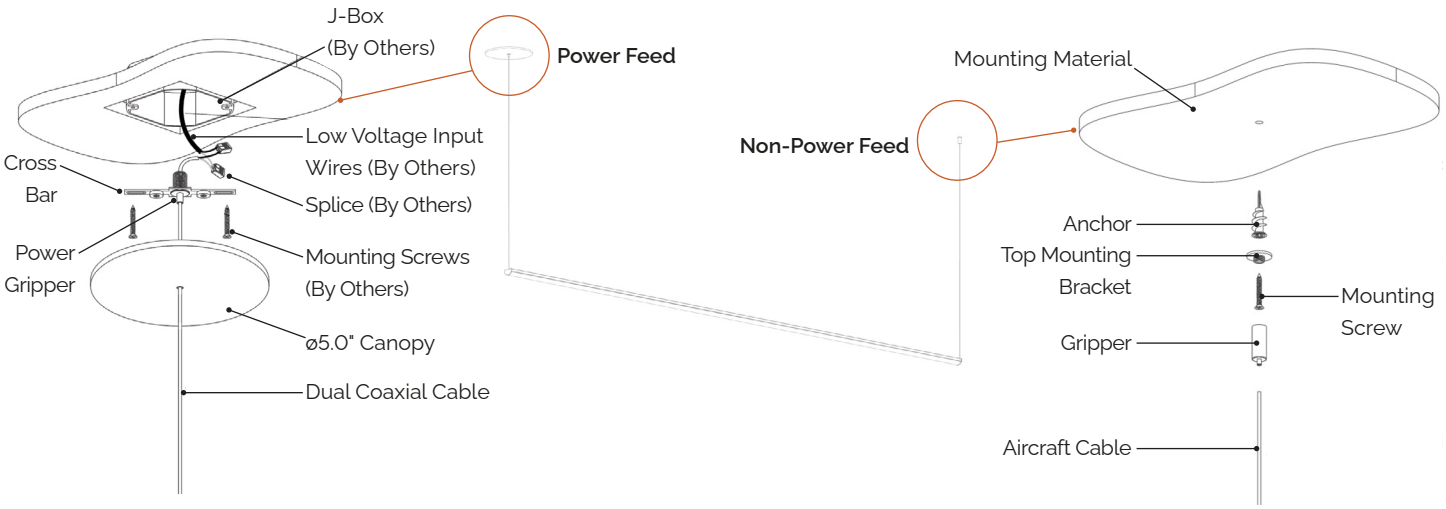
Mounting

2' - 6' Fixtures require one (1) Non-Feed Mount. Fixtures larger than 6' require two (2) Non-Feed Mount.

PCX (Powered Canopy with Included Driver)



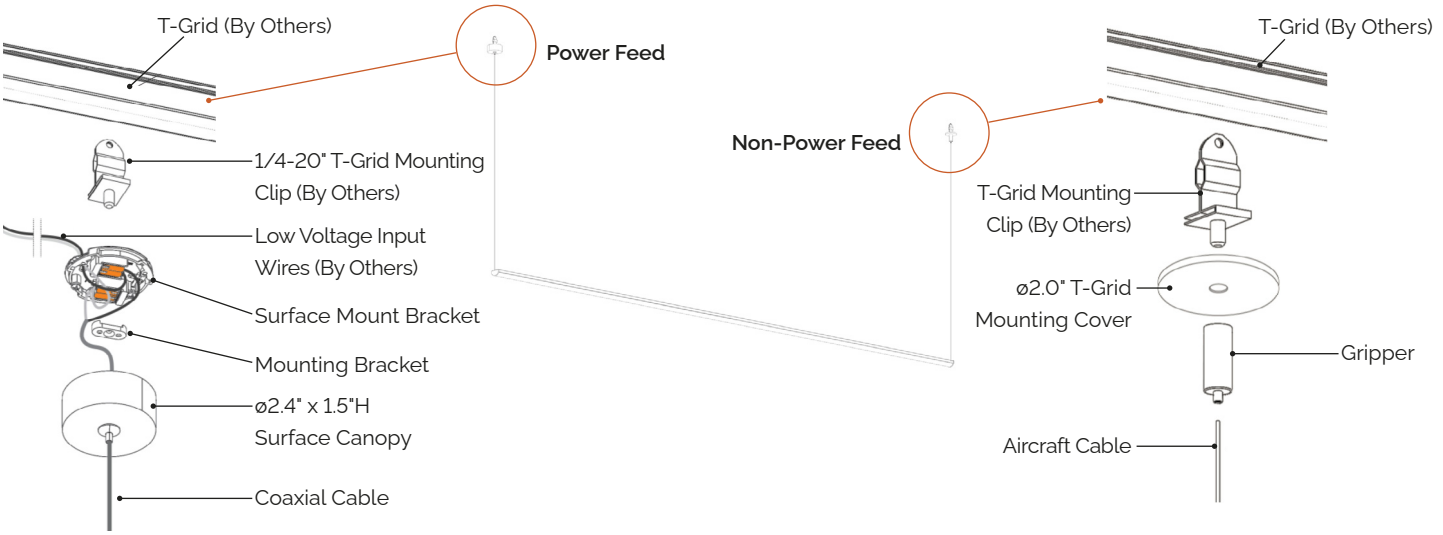
CRX (Canopy Recessed) Requires Hyper Drive



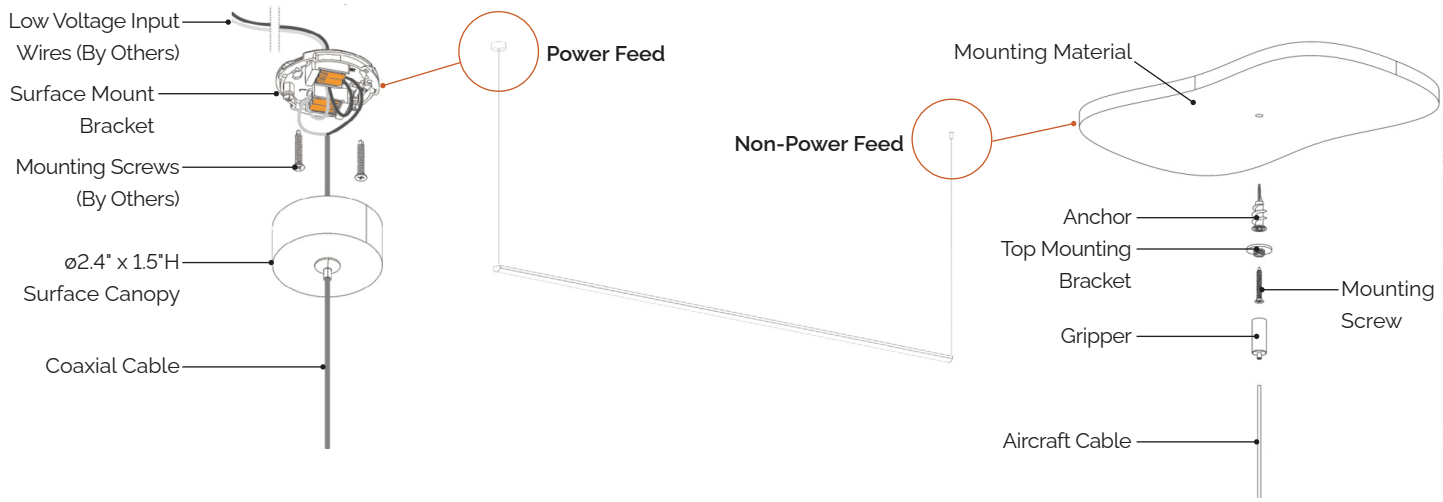
Mounting

2' - 6' Fixtures require one (1) Non-Feed Mount. Fixtures larger than 6' require two (2) Non-Feed Mount.

CTX (Canopy T-Grid) Requires Hyper Drive



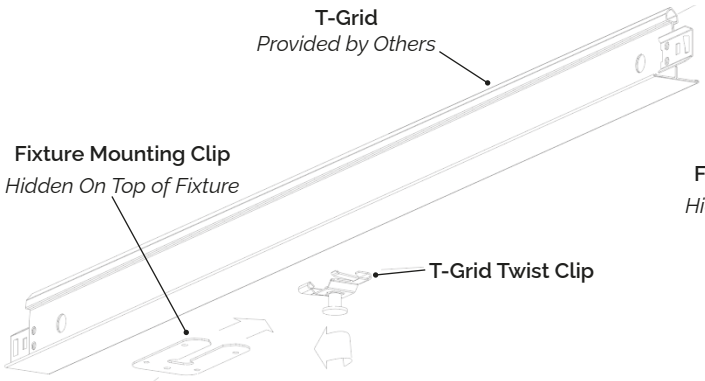
CSX (Canopy Surface) Requires Hyper Drive

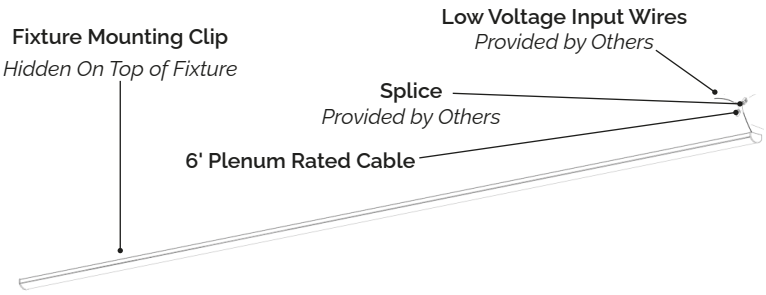


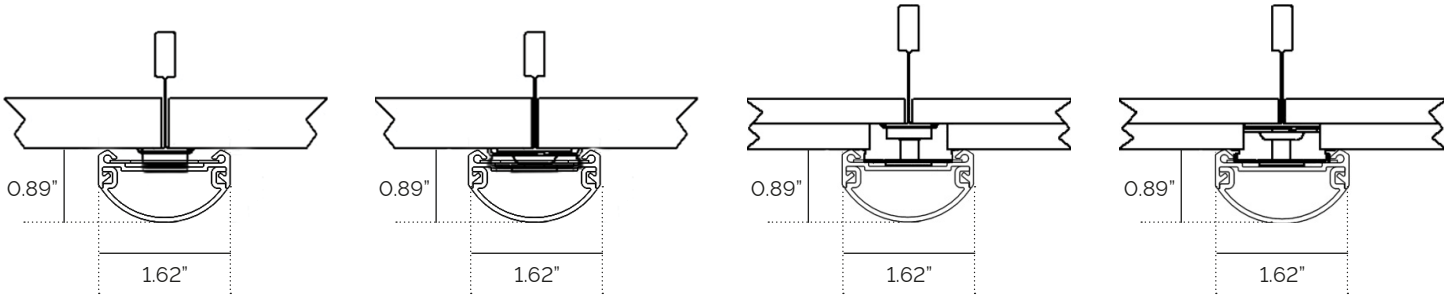
Mounting

2' - 6' Fixtures require one (1) Non-Feed Mount. Fixtures larger than 6' require two (2) Non-Feed Mount.

TBX (T-Grid) Requires Hyper Drive







TB1
9/16" T-Bar

TB2
15/16" T-Bar

TB3
9/16" Tegular

TB4
15/16" Tegular

Submit With Order

Bill of Materials Guide

How to use: Fill out the worksheet to specify your requirements for your configurations.
Be sure to call out battery and sensor locations.

Refer to the run chart for standard run configurations on linear lengths. Consult factory for custom configurations.
Use the order guide to create your BOM for you configuration.

Submit this worksheet along with your order.

Order Guide

Qty.	Type

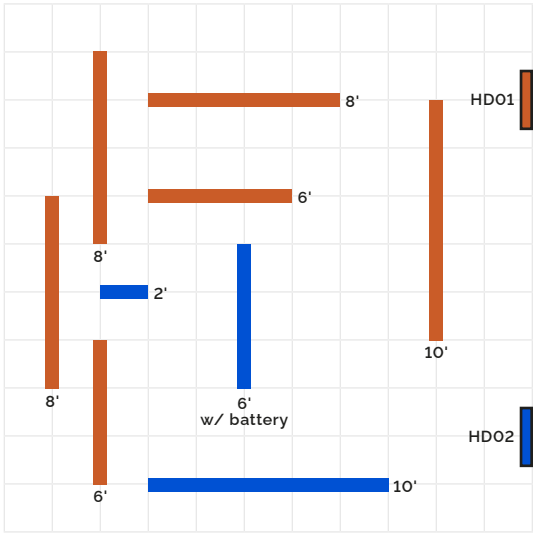
Configuration

NOTE: Low voltage power transfer wire between fixture and Hyper Drive Remote Power System provided by others.

Example

Qty.	Type
3	MRND-8-750-SD-35K-80-PW-CSW-1C-HD01
2	MRND-6-750-SD-35K-80-PW-CSW-1C-HD01
1	MRND-10-750-SD-35K-80-PW-CSW-1C-HD01
1	MRND-10-750-SD-35K-80-PW-CSW-1C-HD02
1	MRND-2-750-SD-35K-80-PW-CSW-1C-HD02
1	MRND-6-750-SD-35K-80-PW-CSW-1C-E1-HD02
1	HYPD-L4-NB-PW-U-DTZ-HD01
1	HYPD-L4-1EMB6-PW-U-DTZ-HD02

Example Configuration



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